

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636874

Luminaire Tested: GWS-SA4B-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8574.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

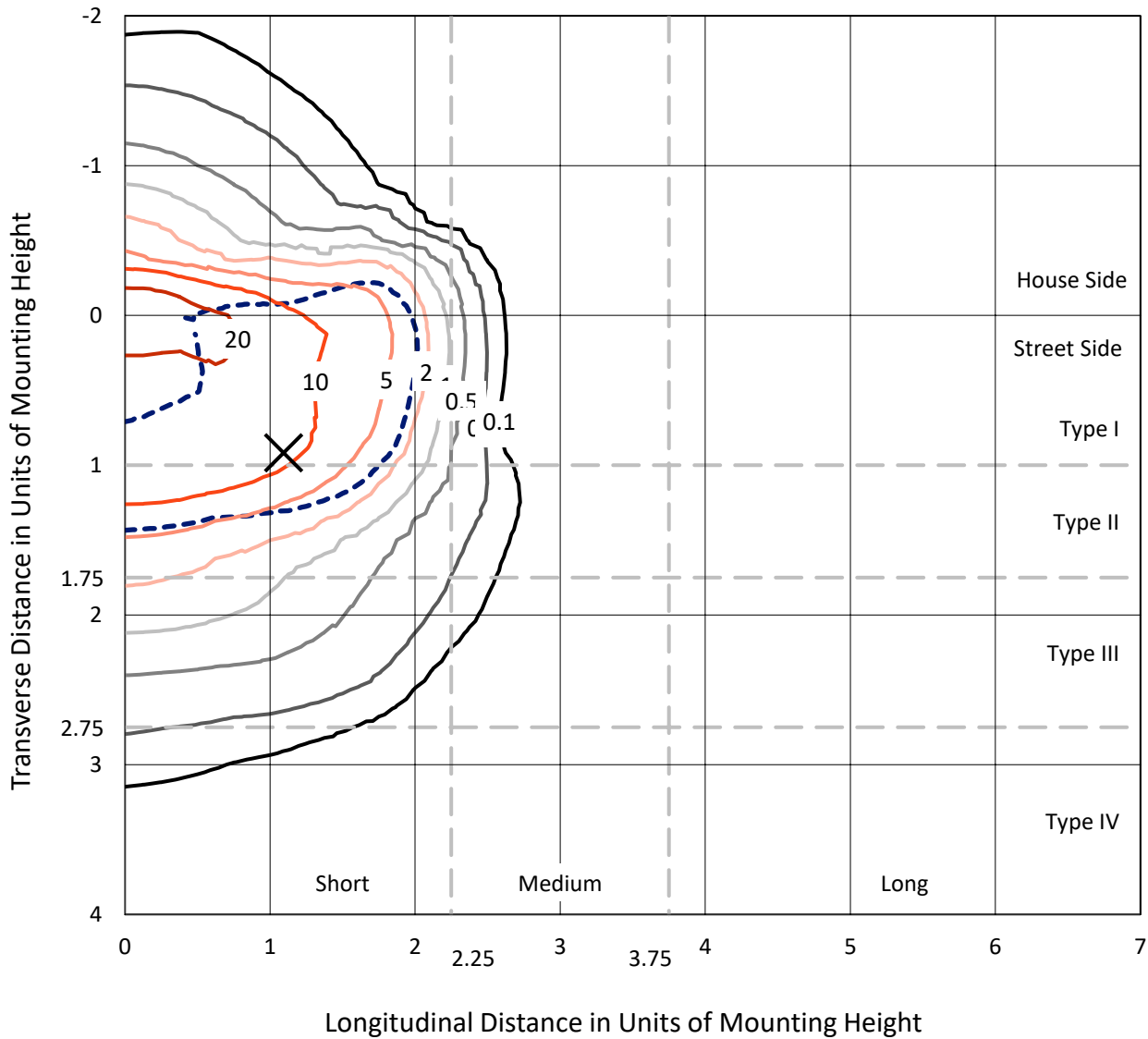
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

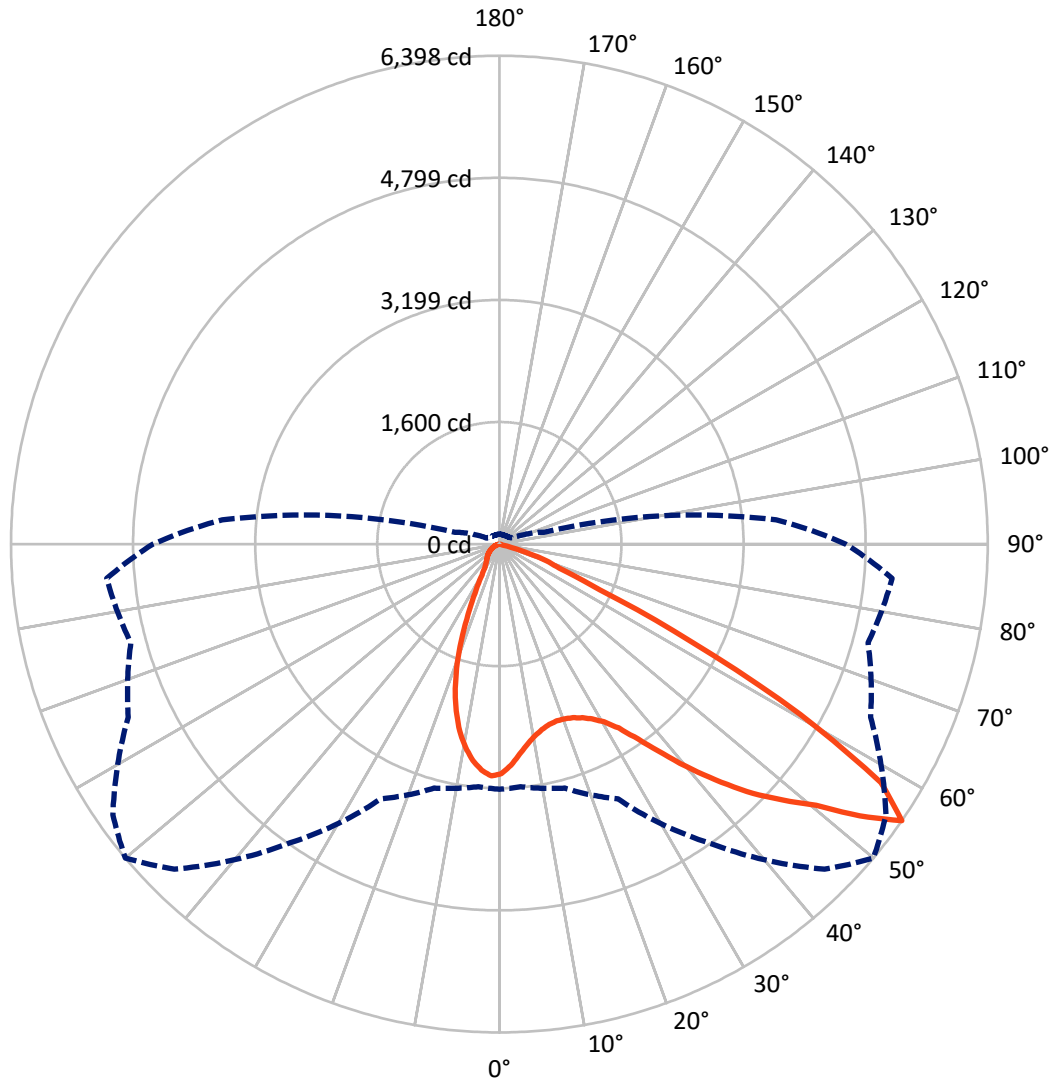
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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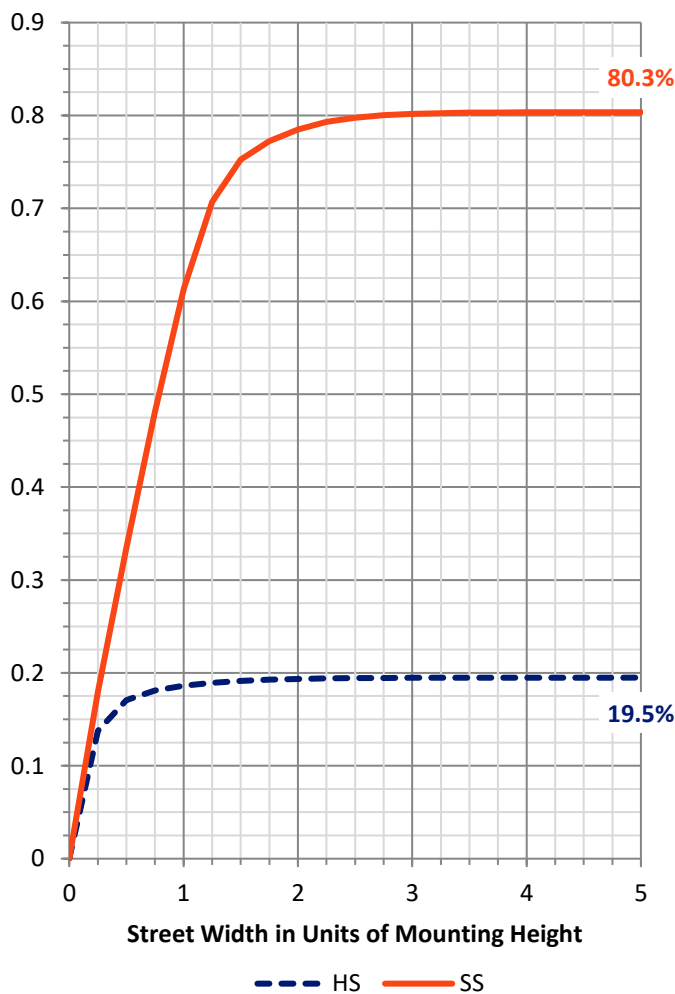
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.6	0.0	1689.6
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	6885.2	0.0	6885.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	8574.8	0.0	8574.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	3.1
10°-20°	650.2	7.6
20°-30°	917.1	10.7
30°-40°	1357.1	15.8
40°-50°	1957.9	22.8
50°-60°	2309.5	26.9
60°-70°	1030.2	12.0
70°-80°	88.6	1.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8574.8	100.0
0°-180°	8574.8	100.0

Coefficient of Utilization



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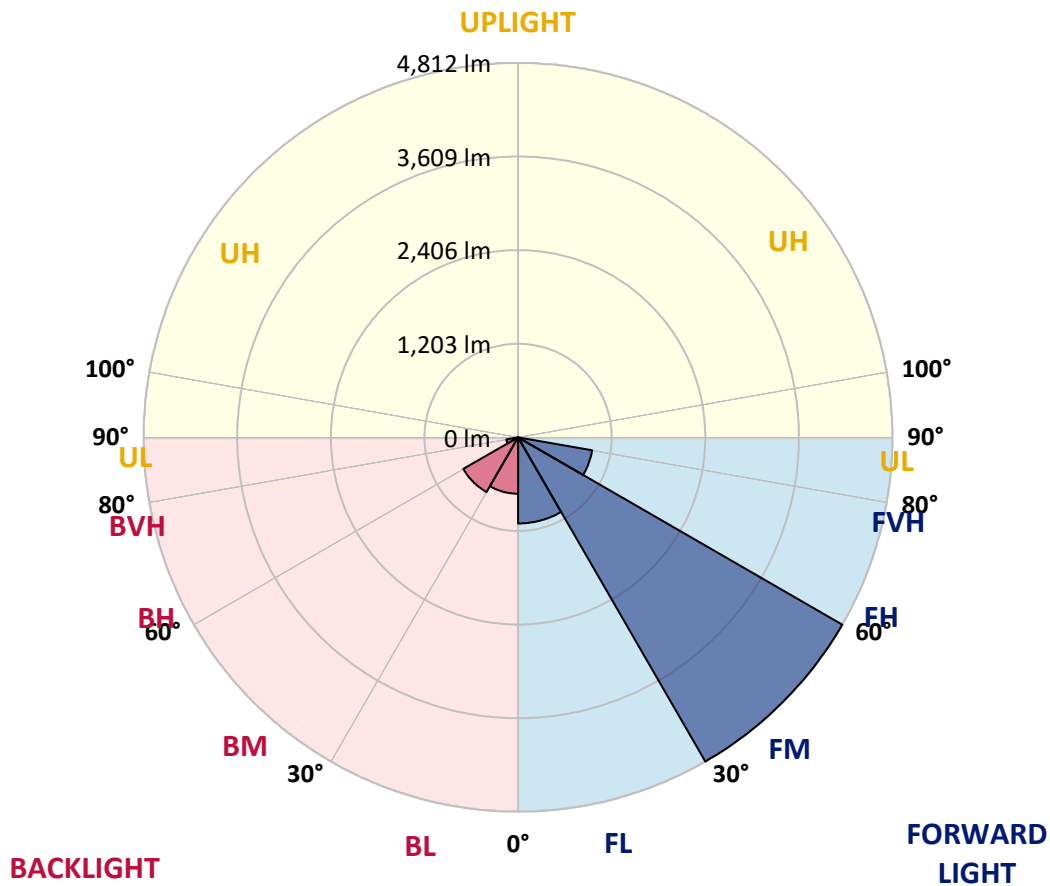
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.0	12.9			
FM (30°-60°)	4811.9	56.1			
FH (60°-80°)	966.2	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	724.5	8.4	B2/1000		
BM (30°-60°)	812.6	9.5	B1/1000		
BH (60°-80°)	152.6	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5
2.5°	2795.0	2797.1	2798.1	2826.4	2836.8	2878.7	2900.7	2912.2	2942.6	2978.2	3007.5
5°	2607.6	2604.5	2609.7	2645.3	2668.3	2730.1	2763.6	2786.6	2853.6	2937.3	3007.5
7.5°	2444.3	2450.6	2456.9	2495.6	2530.1	2597.1	2645.3	2679.8	2773.0	2897.6	3015.8
10°	2329.1	2329.1	2338.6	2382.5	2423.4	2506.1	2554.2	2598.2	2709.1	2862.0	3025.3
12.5°	2244.3	2245.4	2256.9	2307.2	2354.3	2440.1	2490.3	2533.3	2655.7	2826.4	3027.4
15°	2204.6	2201.4	2210.9	2264.2	2316.6	2397.2	2449.5	2491.4	2618.1	2806.5	3037.8
17.5°	2194.1	2192.0	2199.3	2251.7	2305.1	2383.6	2434.9	2476.7	2612.8	2812.8	3069.2
20°	2224.5	2220.3	2217.1	2262.1	2312.4	2389.9	2443.2	2490.3	2637.9	2847.3	3117.4
22.5°	2296.7	2296.7	2289.4	2311.3	2344.8	2415.0	2470.5	2532.2	2703.9	2916.4	3188.6
25°	2429.6	2419.2	2405.6	2415.0	2410.8	2454.8	2520.7	2606.5	2828.5	3030.5	3275.5
27.5°	2581.4	2590.8	2567.8	2568.9	2532.2	2516.5	2592.9	2722.7	3013.8	3191.7	3404.2
30°	2787.6	2780.3	2781.4	2778.2	2693.4	2619.1	2701.8	2874.5	3247.2	3437.7	3571.7
32.5°	2948.8	2959.3	2993.9	3013.8	2902.8	2783.5	2871.4	3080.7	3513.1	3718.3	3776.9
35°	3119.5	3138.3	3208.5	3273.4	3180.2	3043.1	3137.3	3354.0	3763.3	3995.7	4012.4
37.5°	3299.5	3337.2	3421.0	3535.1	3520.4	3399.0	3484.8	3675.3	3960.1	4163.1	4207.1
40°	3505.7	3542.4	3679.5	3843.9	3878.4	3851.2	3879.5	3990.4	4089.9	4170.5	4290.9
42.5°	3731.9	3782.1	3955.9	4175.7	4305.5	4329.6	4263.6	4252.1	4146.4	4086.7	4273.1
45°	3998.8	4057.4	4254.2	4538.9	4745.2	4777.6	4663.5	4515.9	4182.0	4025.0	4219.7
47.5°	4298.2	4353.7	4549.4	4891.7	5198.4	5211.0	5012.1	4774.5	4287.7	4096.1	4260.5
50°	4398.7	4433.2	4602.8	5004.8	5570.0	5666.4	5378.5	5065.5	4500.2	4305.5	4459.4
52.5°	4053.2	4066.8	4214.4	4620.6	5494.7	6113.3	5913.4	5499.9	4878.1	4624.8	4766.1
55°	3211.6	3189.6	3308.9	3681.6	4775.5	6022.3	6398.1	6182.4	5364.9	4999.5	5164.9
57.5°	2246.4	2220.3	2193.1	2445.3	3563.3	5105.3	5895.6	6277.7	5828.6	5371.2	5595.2
60°	1846.6	1821.4	1689.5	1573.3	2154.3	3665.9	4528.5	5247.6	5790.9	5352.3	5581.6
62.5°	1595.3	1580.7	1527.3	1369.2	1267.7	2092.6	2835.8	3524.6	4443.7	4202.9	4215.5
65°	1253.0	1248.8	1285.5	1302.2	1121.1	1157.8	1446.7	1831.9	2402.4	2265.3	2148.0
67.5°	856.3	846.9	916.0	1126.4	1078.2	913.9	846.9	854.2	1039.5	635.4	504.6
70°	544.3	522.4	523.4	698.2	877.2	721.2	653.2	574.7	517.1	94.2	106.8
72.5°	348.6	335.0	287.9	315.1	406.2	351.7	354.9	305.7	204.1	50.2	58.6
75°	146.6	135.0	103.6	82.7	81.7	51.3	45.0	41.9	28.3	28.3	30.4
77.5°	1.0	0.0	0.0	1.0	2.1	1.0	1.0	2.1	4.2	6.3	7.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5	3008.5
2.5°	3025.3	3000.1	3028.4	3038.9	3037.8	3038.9	3008.5	2987.6	2986.5	2960.4	2947.8
5°	3036.8	3016.9	3037.8	3024.2	2991.8	2950.9	2896.5	2849.4	2828.5	2798.1	2783.5
7.5°	3058.8	3037.8	3034.7	2980.3	2899.6	2813.8	2717.5	2631.7	2585.6	2530.1	2533.3
10°	3074.5	3050.4	3009.6	2898.6	2764.6	2627.5	2484.1	2356.4	2275.8	2201.4	2188.9
12.5°	3080.7	3045.2	2949.9	2782.4	2594.0	2415.0	2204.6	2022.4	1896.8	1799.5	1785.8
15°	3092.3	3034.7	2873.5	2642.1	2383.6	2130.2	1862.3	1613.1	1446.7	1334.7	1344.1
17.5°	3110.1	3023.2	2787.6	2485.1	2157.5	1799.5	1437.3	1151.5	998.7	933.7	934.8
20°	3135.2	3009.6	2693.4	2312.4	1886.3	1425.7	1004.9	789.3	746.4	744.3	741.1
22.5°	3168.7	2996.0	2592.9	2122.9	1565.0	998.7	668.9	601.9	619.7	654.3	660.5
25°	3208.5	2979.2	2480.9	1909.4	1214.3	655.3	501.4	491.0	533.9	579.9	590.4
27.5°	3270.2	2970.8	2353.2	1666.5	852.1	470.0	410.3	416.6	455.4	494.1	503.5
30°	3374.9	2986.5	2214.0	1394.3	547.5	374.8	355.9	365.3	386.3	406.2	414.5
32.5°	3517.3	3032.6	2079.0	1097.1	390.5	325.6	321.4	326.6	335.0	346.5	349.6
35°	3683.7	3112.2	1939.7	785.1	322.4	297.3	293.1	293.1	297.3	299.4	300.4
37.5°	3820.8	3195.9	1808.9	522.4	288.9	275.3	269.0	265.9	264.8	266.9	268.0
40°	3880.5	3230.4	1666.5	380.0	264.8	255.4	246.0	236.6	236.6	243.9	245.0
42.5°	3838.6	3191.7	1502.2	314.0	248.1	234.5	219.8	211.5	215.6	223.0	225.1
45°	3749.7	3096.4	1321.1	277.4	231.3	213.5	196.8	191.6	195.8	205.2	207.3
47.5°	3735.0	3033.6	1104.4	253.3	213.5	195.8	178.0	172.7	178.0	185.3	187.4
50°	3880.5	3088.1	863.6	232.4	196.8	176.9	162.3	157.0	160.2	164.3	166.4
52.5°	4146.4	3290.1	697.2	212.5	176.9	158.1	148.6	142.4	142.4	146.6	147.6
55°	4538.9	3642.9	601.9	189.5	153.9	143.4	135.0	128.8	128.8	130.9	131.9
57.5°	4991.2	4070.0	623.9	159.1	135.0	129.8	122.5	117.2	119.3	119.3	119.3
60°	4928.4	4038.6	667.9	134.0	119.3	117.2	111.0	108.9	114.1	109.9	107.8
62.5°	3630.3	2789.7	349.6	109.9	102.6	100.5	96.3	100.5	107.8	96.3	92.1
65°	1762.8	1350.4	140.3	90.0	86.9	84.8	82.7	89.0	93.2	75.4	71.2
67.5°	414.5	337.1	91.1	76.4	72.2	68.0	70.1	71.2	68.0	51.3	49.2
70°	107.8	105.7	71.2	63.9	57.6	53.4	53.4	52.3	45.0	32.5	30.4
72.5°	58.6	57.6	51.3	48.2	39.8	35.6	36.6	32.5	25.1	18.8	17.8
75°	29.3	31.4	29.3	27.2	22.0	19.9	19.9	17.8	12.6	7.3	7.3
77.5°	6.3	7.3	7.3	6.3	5.2	4.2	4.2	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)